

Title (en)

DIRECTIONAL EXHAUST DEVICE, BATTERY, AND ENERGY STORAGE PREFABRICATED COMPARTMENT

Title (de)

GERICHTETE ABGASVORRICHTUNG, BATTERIE UND VORGEFERTIGTES ENERGIESPEICHERFACH

Title (fr)

DISPOSITIF D'ÉCHAPPEMENT DIRECTIONNEL, BATTERIE ET COMPARTIMENT PRÉFABRIQUÉ DE STOCKAGE D'ÉNERGIE

Publication

**EP 4280365 A1 20231122 (EN)**

Application

**EP 22888883 A 20220706**

Priority

- CN 202122695707 U 20211105
- CN 2022104010 W 20220706

Abstract (en)

The present application relates to a directional exhaust device, a battery (100), and an energy storage prefabricated compartment. The directional exhaust device at least comprises a first exhaust part (200) and a second exhaust part (300). The first exhaust part (200) is communicated with a pressure relief device (30) of the battery (100), and the second exhaust part (300) is communicated with the first exhaust part (200) and the outside, so as to discharge the gas generated by the battery (100) by means of the pressure relief device (30), the first exhaust part (200), and the second exhaust part (300). A large amount of combustible gas generated during thermal runaway of the battery (100) enters the first exhaust part (200) by means of the pressure relief device (30), and is directly discharged to the outside by means of the first exhaust part (200) and the second exhaust part (300), thereby preventing the combustible gas discharged from the pressure relief device (30) from entering a battery compartment, and thus preventing deflagration and explosion caused when the concentration of the combustible gas in the battery compartment is too high, and improving the safety and prolonging the service life of the energy storage prefabricated compartment.

IPC 8 full level

**H01M 50/30** (2021.01); **H01M 50/24** (2021.01); **H01M 50/244** (2021.01); **H01M 50/251** (2021.01)

CPC (source: EP US)

**A62C 3/16** (2013.01 - EP); **H01M 50/209** (2021.01 - EP); **H01M 50/24** (2021.01 - EP); **H01M 50/251** (2021.01 - EP); **H01M 50/30** (2021.01 - EP); **H01M 50/317** (2021.01 - US); **H01M 50/358** (2021.01 - EP US); **H01M 50/367** (2021.01 - EP); **H01M 2200/20** (2013.01 - US); **Y02E 60/10** (2013.01 - EP)

Designated contracting state (EPC)

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DOCDB simple family (application)

**EP 22888883 A 20220706**; CN 202122695707 U 20211105; CN 2022104010 W 20220706; US 202318368030 A 20230914